

Writing Equations of Parallel and Perpendicular Lines

A.) Write an equation of the line which is parallel to the given line and passes through the given point.

1.)  $y = 2x + 5; (4, 4)$

2.)  $y = -x + 4; (-1, 2)$

3.)  $y = \frac{1}{2}x - 3; (5, 3)$

4.)  $y = -\frac{2}{3}x; (-3, -1)$

5.)  $y = -x + 2; (3, 2)$

6.)  $y = -3x + 2; (2, 1)$

B.) Write an equation of the line which is perpendicular to the given line and passes through the given point.

7.)  $y = -2x + 1; (4, 0)$

8.)  $y = 2x - 4; (-3, -1)$

9.)  $y = -\frac{5}{6}x + 1; (0, -3)$

10.)  $y = \frac{1}{7}x + 2; (4, -1)$

11.)  $y = 10x + 3; (0, 6)$

12.)  $y = -\frac{1}{6}x - 2; (-2, -1)$